

# Cal/Ecotox

## Toxicity Data for Clapper Rail (*Rallus longirostris*)\*

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Chemical	Tox Exposure	Endpoint Type	Endpoint Description	Endpoint Value	Note	Reference
CHLORDANE; DDD (4,4'); DDE (4,4'); DDT (4,4');	0.03-0.17 (oxychlordane), 0.11-0.58	TOX-REPRO - physiology	eggshell thickness compared to those of museum eggs from 1907 and 1936	no effect	a	1
DIELDRIN; HEPTACHLOR; MERCURY (elemental); POLYCHLORINATED BIPHENYLS; SELENIUM (elemental)	(trans-nonachlor), 0.81-2.86 (PCB), 0.05-0.26 (cis-chlordane), 0.28-0.84 (DDE), 0.02-0.15 (DDD), <0.01-0.15 (DDT), 0.08-0.19 (dieldrin), <0.01-0.14 (heptachlor epo					
DDD (4,4'); DDT (4,4')	1,250-2,500 ppm diet	TOX-EXP IND - accumulation	mean residue concentration in brains of birds that survived	13.3 ppm	b	2
DDD (4,4'); DDT (4,4')	1,500-2,250 ppm diet	TOX-EXP IND - accumulation	mean residue concentration in brains of birds that survived	19.0 ppm	c	2
DDD (4,4'); DDT (4,4')	1,250-2,500 ppm diet	TOX-EXP IND - accumulation	mean residue concentration in brains of birds that died	42.9 ppm	d	2
DDD (4,4'); DDT (4,4')	1,500-2,250 ppm diet	TOX-EXP IND - accumulation	mean residue concentration in brains of birds that died	44.6 ppm	e	2
DDT (4,4')	1,250-2,500 ppm diet	TOX-MORT - toxicity benchmarks	5 day dietary LC50	1612 ppm	f	2
DDT (4,4')	1,500-2,250 ppm diet	TOX-MORT - toxicity benchmarks	5 day dietary LC50	1896 ppm	g	2

### Notes

- a Adult; F; Species - California (R)=*Rallus longirostris* (ssp. *obsoletus*); TOX - Chemical=57-74-9; TOX - Chemical=72-54-8; TOX - Chemical=72-55-9; TOX - Chemical=50-29-3; TOX - Chemical=60-57-1; TOX - Chemical=76-44-8; TOX - Chemical=7439-97-6; TOX - Chemical=1336-36-3; TOX - Chemical=7782-49-2; N=29 eggs; North and South San Francisco Bay; Tox Exp Tech=diet (parent); Tox Exp Dur=NR; Tox Study Dur=NR; Tox Stat Sig=N; Samples collected in 1975, 1986, 1987; see citation for breakdown of organochlorine analyses by compound and year.
- b Juvenile; Lab; M; Species - California (R)=*Rallus longirostris*; TOX - Chemical=72-54-8; TOX - Chemical=50-29-3; N=7 birds; Tox Exp Tech=diet; Tox Exp Dur=5 d; Tox Study Dur=5 d; Tox Stat Sig=NR
- c Juvenile; Lab; F; Species - California (R)=*Rallus longirostris*; TOX - Chemical=72-54-8; TOX - Chemical=50-29-3; N=4 birds; Tox Exp Tech=diet; Tox Exp Dur=5 d; Tox Study Dur=5 d; Tox Stat Sig=NR
- d Juvenile; Lab; M; Species - California (R)=*Rallus longirostris*; TOX - Chemical=72-54-8; TOX - Chemical=50-29-3; N=7 birds; Tox Exp Tech=diet; Tox Exp Dur=5 d; Tox Study Dur=5 d; Tox Stat Sig=NR
- e Juvenile; Lab; F; Species - California (R)=*Rallus longirostris*; TOX - Chemical=72-54-8; TOX - Chemical=50-29-3; N=4 birds; Tox Exp Tech=diet; Tox Exp Dur=5 d; Tox Study Dur=5 d; Tox Stat Sig=NR
- f Juvenile; Lab; M; Species - California (R)=*Rallus longirostris*; TOX - Chemical=50-29-3; TOX - Dose-Response Data Format=DR Table; N=7 birds; Tox Exp Tech=diet; Tox Exp Dur=5 d; Tox Study Dur=5 d; Tox Stat Sig=NR
- g Juvenile; Lab; F; Species - California (R)=*Rallus longirostris*; TOX - Chemical=50-29-3; TOX - Dose-Response Data Format=DR Table; N=4 birds; Tox Exp Tech=diet; Tox Exp Dur=5 d; Tox Study Dur=5 d; Tox Stat Sig=NR

### References

- 1 Lonzarich, David G., Thomas E. Harvey and Jean E. Takekawa. 1992. Trace element and organochlorine concentrations in California clapper rail (*Rallus longirostris obsoletus*) eggs. Arch. Environ. Contam. Toxicol. 23:147-153.
- 2 Van Velzen, Aldeen and J.F. Kreitzer. 1975. The toxicity of p,p'-DDT to the clapper rail. J. Wildl. Manage. 39(2):305-309.

\* Cal/EPA, OEHHA and the University of California Regents are not responsible for damages of any kind resulting from the use of or reliance on information in this report. Users are encouraged to consult the original data. Updated: February 1999.